



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Leblans) Attorney reference: 27500-160
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Filing Date: 6/27/2003) Examiner: Webb
Title: BINDERLESS STORAGE PHOSPHOR)
SCREEN) Art Unit: 2878
) Conf. No.: 8428
)

INFORMATION DISCLOSURE STATEMENT

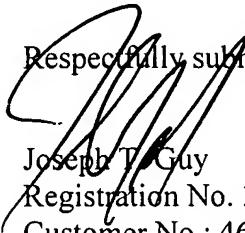
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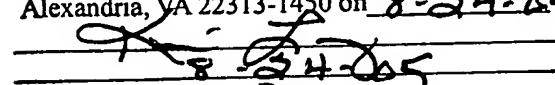
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Respectfully submitted,


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[DocX97]	INFORMATION DISCLOSURE CITATION IN AN APPLICATION Title: BINDERLESS STORAGE PHOSPHOR SCREEN					Attorney Docket No. 27500-160
	U.S. PATENT DOCUMENTS					
Examiner Initials	Document Number	Date	Name	Class	Sub-Class	Filing Date If Appropriate
	5,032,732	7/16/91	Ito	250	484.1	
	5,905,014	5/18/99	Van de Bergh	430	139	
	6,228,286	5/8/01	Leblans et al.	252	301.4H	
	2004/0026632	2/2004	Struye et al.	250	484,4	
	2004/0262537	12/2004	Leblans	250	484.4	
	FOREIGN PATENT DOCUMENTS					
Examiner Initials	Document Number	Date	Name	Country	Sub-Class	Translation
	3205693	8/25/83	Siemens AG	DE		Abstract
	2000346996	12/15/00	Patent Abstracts of Japan	JP		yes
	43 42 219	6/14/95	Seimens AG	DE		Abstract
	1 113 458	7/4/2001	Agfa-Gevaert	EP		
	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
	Examiner's Signature:			Dated:		

Copy of all cited references are enclosed.

No English title available.

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Inventor(s): HEINRICH HANS

Applicant(s): SIEMENS AG (DE)

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EC Classification: G01T1/29D9, G21K4/00, H01L31/14B

Equivalents: JP58153379

Abstract

The invention relates to an X-ray image converter having a screen (8), which can be excited by X-rays to store luminous electrons and which is assigned means for scanning illumination and means (6) which convert the result of the illumination into electrical signals, as well as a device (16) for converting the image signal sequence thus obtained into a visible image. In such arrangements, the grainy or patterned structure of the storage material layer that is normally present causes interference in the image. In order to avoid this disadvantage, the invention provides a homogenous storage layer (8), which can be constructed, for example, as a single crystal or a transparently vapour-deposited layer. An X-ray image converter

constructed according to the invention is particularly suitable for use in medical X-ray diagnostics.



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